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DATE: Monday, March 21, 2005

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	DB=US	PT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=ADJ	
	L3	L2	48
	L2	L1 and proton conducting membrane	48
	L1	polymer electrolyte and (sulfonated or sulphonated polymer)	498

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Search Results - Record(s) 1 through 10 of 48 returned.

☐ 1. Document ID: US 6864006 B2

Using default format because multiple data bases are involved.

L3: Entry 1 of 48

File: USPT

Mar 8, 2005

US-PAT-NO: 6864006

DOCUMENT-IDENTIFIER: US 6864006 B2

TITLE: Proton-conducting membrane, method for producing the same, and fuel cell

using the same

DATE-ISSUED: March 8, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Honma; Itaru Tsukuba-shi, Ibaraki-ken, 305-8568 JP

Tsukuba JP

Nomura; Shigeki Tsukuba JP

Sugimoto; Toshiya Tsukuba JP

Nishikawa; Osamu

US-CL-CURRENT: 429/33; 429/306, 429/313, 429/317

☐ 2. Document ID: US 6863838 B2

L3: Entry 2 of 48

File: USPT Mar 8, 2005

US-PAT-NO: 6863838

DOCUMENT-IDENTIFIER: US 6863838 B2

TITLE: Zwitterionic imides

DATE-ISSUED: March 8, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hamrock; Steven Joseph Stillwater MN

US-CL-CURRENT: 252/62.2; 429/200, 546/249, 548/146, 564/82

h eb bgeeef ee ef be

Fûll Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 3. Document ID: US 6841285 B2

L3: Entry 3 of 48 File: USPT Jan 11, 2005

US-PAT-NO: 6841285

DOCUMENT-IDENTIFIER: US 6841285 B2

TITLE: Impregnation of ion-exchange membranes to improve electrochemical fuel cell

performance

DATE-ISSUED: January 11, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Wilkinson; David P. North Vancouver CA Roberts; Joy A. Coquitlam CA Richmond CA Jia; Nengyou Yuh; Eagranie Vancouver CA Knights; Shanna D. Burnaby CA St-Pierre; Jean Vancouver CA

US-CL-CURRENT: 429/33; 429/13, 429/315, 429/316, 521/27, 521/32

Full Title Citation Front Review Classification Date Reference Securificas Attachments Claims KWC Draw De

☐ 4. Document ID: US 6780935 B2

L3: Entry 4 of 48 File: USPT Aug 24, 2004

US-PAT-NO: 6780935

DOCUMENT-IDENTIFIER: US 6780935 B2

TITLE: Fluoropolymer resins containing ionic or ionizable groups and products

containing the same

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hedhli; Lotfi King of Prussia PA Billon; Laurent King of Prussia PA

US-CL-CURRENT: <u>525/191</u>; <u>525/197</u>, <u>525/199</u>, <u>525/212</u>, <u>525/221</u>, <u>525/222</u>, <u>525/287</u>

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMIC Draw De

h eb bgeeef ee ef b

5. Document ID: US 6759441 B1

L3: Entry 5 of 48

File: USPT

Jul 6, 2004

US-PAT-NO: 6759441

DOCUMENT-IDENTIFIER: US 6759441 B1

TITLE: Acid-base polymer blends and their use in membrane processes

DATE-ISSUED: July 6, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Kerres; Jochen

Ostfildern

DE

Cui; Wei

Stuttgart

DE

US-CL-CURRENT: <u>521/27</u>; <u>521/28</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	e de la companya della companya della companya de la companya della companya dell	Alter Interits	Claims	KWMC	Dravu De

	6. I	Docume	nt ID:	US 67	23757 B1							
L3: E	ntry	6 of 4	8			E	File: US	SPT		Apr	20,	2004

US-PAT-NO: 6723757

DOCUMENT-IDENTIFIER: US 6723757 B1

TITLE: Engineering ionomeric blends and engineering ionomeric blend membranes

DATE-ISSUED: April 20, 2004

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME

Kerres; Jochen Ostfildern DE Ullrich; Andreas Esslingen DE Haring; Thomas DE Stuttgart

US-CL-CURRENT: <u>521/27</u>; <u>521/28</u>, <u>525/203</u>, <u>525/204</u>, <u>525/327.1</u>, <u>525/340</u>, <u>525/344</u>

Full	Title Cita	tion Front	Review	Classification	Date	Reference	Sequences Affachments	Claims	кимс	Draw, De
	7. Docu	ument ID	: US 67	16548 B1						
L3: E	ntry 7 o	f 48				File: U	USPT	Apr	6,	2004

US-PAT-NO: 6716548

DOCUMENT-IDENTIFIER: US 6716548 B1

TITLE: Composite electrolyte membranes for fuel cells and methods of making same

e b bgeeef ee ef b h

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kaliaguine; Serge Lac St-Charles . CA
Mikhailenko; Sergei Ste-Foy CA
Zaidi; S. M. Javak Quebec CA

US-CL-CURRENT: 429/33; 429/317

Full Title Citation Front Review Classification Date Reference Secuences Attachments Claims KWC Draw. De

□ 8. Document ID: US 6653596 B2

L3: Entry 8 of 48 File: USPT Nov 25, 2003

US-PAT-NO: 6653596

DOCUMENT-IDENTIFIER: US 6653596 B2

TITLE: Fuel cell operated welder

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Blankenship; George D. Chardon OH

US-CL-CURRENT: <u>219/137PS</u>; <u>219/130.1</u>, <u>429/13</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | Séquences | Effectments | Claims | KVMC | Draw, De

☐ 9. Document ID: US 6632847 B1

L3: Entry 9 of 48 File: USPT Oct 14, 2003

US-PAT-NO: 6632847

DOCUMENT-IDENTIFIER: US 6632847 B1

TITLE: Polymer composition, membrane containing said composition, method for the

production and uses thereof

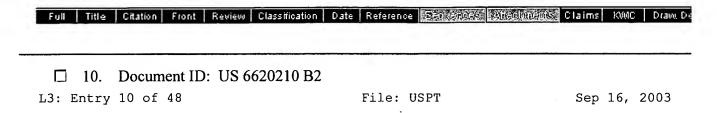
DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

CITY STATE ZIP CODE NAME COUNTRY Soczka-Guth; Thomas Schelklingen DE Frank; Georg Tubingen DE Baurmeister; Jochen Eckernforde DE Pawlik; Jurgen Frankfurt DE Knauf; Rudiger Aull . DE

h eb bgeeef ee ef be

US-CL=CURRENT: 521/27; 429/12, 429/27, 429/46, 521/33, 521/37, 528/125, 528/220



US-PAT-NO: 6620210

DOCUMENT-IDENTIFIER: US 6620210 B2

TITLE: Method of washing laundry using ozone to degrade organic material

DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Murphy; Oliver J. Bryan TX Hitchens; G. Duncan Bryan TX

US-CL-CURRENT: <u>8/149.1</u>; <u>8/147</u>, <u>8/149.2</u>, <u>8/158</u>

Full	Title Citation	Front	Review	Classification	Date	Reference	30 p.		E	hitistis.	Claims	KWIC	Drawd
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	Term									Docur	nents		
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	(L2).USPT	,USO	C,EPAI	3,JPAB,DV	VPI,T	DBD.						48	

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Search Results - Record(s) 31 through 40 of 48 returned.

☐ 31. Document ID: US 6110616 A

Using default format because multiple data bases are involved.

L3: Entry 31 of 48

File: USPT

Aug 29, 2000

US-PAT-NO: 6110616

DOCUMENT-IDENTIFIER: US 6110616 A

TITLE: Ion-conducting membrane for fuel cell

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sheikh-Ali; Bashir Musse Troy NY Wnek; Gary Edmund Midlothian VA

US-CL-CURRENT: 429/33; 252/62.2, 264/83, 429/189, 429/30, 429/309, 429/314

Full Title Citation Front Review Classification Date Reference Sequences Attachnicate Claims KWIC Draw. De

☐ 32. Document ID: US 6059943 A

L3: Entry 32 of 48

File: USPT May 9, 2000

US-PAT-NO: 6059943

DOCUMENT-IDENTIFIER: US 6059943 A

TITLE: Composite membrane suitable for use in electrochemical devices

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Murphy; Oliver J. Bryan TX Cisar; Alan J. Cypress TX

US-CL-CURRENT: 204/296; 429/41, 429/42

Full Title Citation Front Review Classification Date Reference **Section Alteriments** Claims KWC Draw De

☐ 33. Document ID: US 6010798 A

Jan 4, 2000 L3: Entry 33 of 48 File: USPT

US-PAT-NO: 6010798

DOCUMENT-IDENTIFIER: US 6010798 A

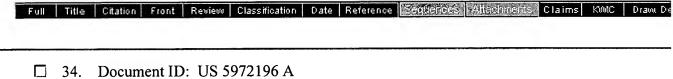
TITLE: PEM fuel cell

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME DΕ Hammerschmidt; Albert Erlangen Domke; Wolf-Dieter Rottenbach DE DE Nolscher; Christoph Nurnberg Suchy; Peter Erlangen DE

US-CL-CURRENT: 429/30; 429/33, 429/41, 429/44



L3: Entry 34 of 48

File: USPT

Oct 26, 1999

US-PAT-NO: 5972196

DOCUMENT-IDENTIFIER: US 5972196 A

TITLE: Electrochemical production of ozone and hydrogen peroxide

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

CITY ZIP CODE COUNTRY NAME STATE

Murphy; Oliver J. Bryan TXHitchens; G. Duncan Bryan

US-CL-CURRENT: <u>205/466</u>; <u>204/157.15</u>, <u>205/626</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Allashusile	Claims	KWIC	Draw, De
	35.	Docum	ent ID): US 5	916505 A							
L3: E	Entry	35 of	48				File: U	SPT		Jun	29,	1999

US-PAT-NO: 5916505

DOCUMENT-IDENTIFIER: US 5916505 A

TITLE: Process of making a membrane with internal passages

DATE-ISSUED: June 29, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Cisar; Alan J. Cypress TX
Gonzalez-Martin; Anuncia College Station TX
Hitchens; G. Duncan Bryan TX
Murphy; Oliver J. Bryan TX

US-CL-CURRENT: 264/85; 264/129, 264/308, 264/313, 264/340, 264/343, 427/307,

427/393.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Altachments	Claims	KWIC	Draw De
							•					
	36.	Docum	ent ID): US 5	861222 A							
L3: E	Entry	36 of	48				File: U	SPT		Jan	19,	1999

US-PAT-NO: 5861222

DOCUMENT-IDENTIFIER: US 5861222 A

TITLE: Gas diffusion electrode for membrane fuel cells and method of its production

DATE-ISSUED: January 19, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Fischer; Andreas Frankfurt DE
Wendt; Hartmut Dieburg DE
Zuber; Ralf Grossostheim DE

US-CL-CURRENT: $\frac{429}{42}$; $\frac{106}{1.21}$, $\frac{106}{122}$, $\frac{204}{282}$, $\frac{204}{283}$, $\frac{204}{284}$, $\frac{204}{296}$, $\frac{429}{40}$, $\frac{429}{41}$, $\frac{429}{44}$, $\frac{502}{101}$, $\frac{502}{22}$, $\frac{502}{27}$, $\frac{502}{4}$, $\frac{521}{27}$, $\frac{521}{28}$

Full	Title	Citation	Front	Review	Classification	Date	Reference	Saudences.	Allaphinents	Claims	ROME	Draw, De

☐ 37. Document ID: US 5795496 A

L3: Entry 37 of 48

File: USPT Aug 18, 1998

US-PAT-NO: 5795496

DOCUMENT-IDENTIFIER: US 5795496 A

TITLE: Polymer material for electrolytic membranes in fuel cells

DATE-ISSUED: August 18, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Yen; Shaio-Ping S. Altadena CA

Narayanan; Sekharipuram R.

Halpert; Gerald

Gerald Pasadena

Graham; Eva Yavrouian; Andre St. Pasadena Glendale

St. Altadena

CA CA

CA

CA

 $\text{US-CL-CURRENT: } \underline{252/62.2}; \ \underline{252/500}, \ \underline{252/519.33}, \ \underline{252/521.3}, \ \underline{429/33}, \ \underline{521/27}, \ \underline{521/30}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 38. Document ID: US 5770033 A

L3: Entry 38 of 48

File: USPT

Jun 23, 1998

US-PAT-NO: 5770033

DOCUMENT-IDENTIFIER: US 5770033 A

TITLE: Methods and apparatus for using gas and liquid phase cathodic depolarizers

DATE-ISSUED: June 23, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Murphy; Oliver J. Bryan TX Hitchens; G. Duncan Bryan TX

US-CL-CURRENT: 205/464; 205/466, 205/468, 205/626, 205/633, 205/635, 205/636

Full Title Citation Front Review Classification Date Reference Seguences Altachments Claims KMC Draw De

☐ 39. Document ID: US 5677074 A

L3: Entry 39 of 48

File: USPT

Oct 14, 1997

US-PAT-NO: 5677074

DOCUMENT-IDENTIFIER: US 5677074 A

TITLE: Gas diffusion electrode

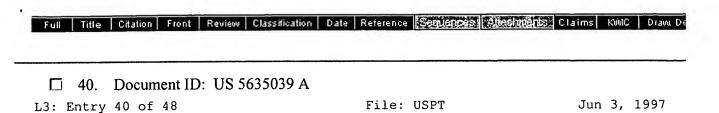
DATE-ISSUED: October 14, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Serpico; Joseph M. East Greenbush NY
Ehrenberg; Scott G. Fishkill NY
Wnek; Gary E. Latham NY
Tangredi; Timothy N. Palm Harbor FL

US-CL-CURRENT: 429/43; 429/33, 429/42



US-PAT-NO: 5635039

DOCUMENT-IDENTIFIER: US 5635039 A

TITLE: Membrane with internal passages to permit fluid flow and an electrochemical

cell containing the same

DATE-ISSUED: June 3, 1997

INVENTOR-INFORMATION:

COUNTRY CITY ZIP CODE NAME TXCisar; Alan J. Cypress Gonzalez-Martin; Anuncia College Station TXTXHitchens; G. Duncan Bryan TXMurphy; Oliver J. Bryan

US-CL-CURRENT: 204/252; 204/282, 204/290.12, 204/290.14, 204/296, 429/30, 429/33, 429/40, 429/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Seq are		ente Claims	KWIC
Clear		Genera	ate Col	lection	Print][F	wd Refs	Bkw	d Refs	Gene	erate OAC
	Ter	m							Do	ocuments	
	2.U	SPT,US	SOC,E	PAB,JF	AB,DWPI,	TDBI	D.				48

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	"6555626"	USPAT	OR	OFF	2005/03/21 13:42
L2	3	(goto/.in. and polyimide and electrolyte)	USPAT	OR	OFF	2005/03/21 13:44
L3	3	(("6720106") or ("6770393") or ("6767664")).PN.	USPAT	OR	OFF	2005/03/21 13:46
L4	2	(("6084053") or ("6300465")).PN.	USPAT	OR	OFF	2005/03/21 13:50
L5	1758381	polymer electrolyte and (thiophene or thiazole or azole)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 13:52
L6	26034	5 and (sulfonated or sulphonated)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 13:53
L7	36	6 and 528/373.ccls.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21.13:56
L8	65061	5 and (phenylene or arylene)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 13:58
L9	57	8 and 528/390.ccls.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 13:59